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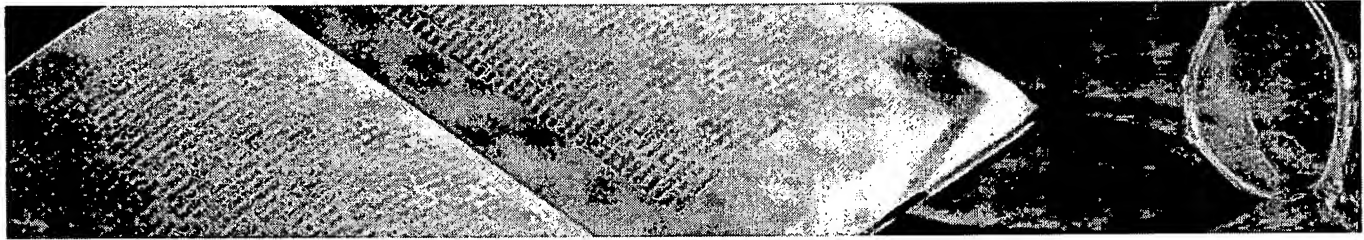
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## A Novel Compensation Scheme for I/Q Mismatch in OFDM low-IF Receiver

J. Bae, W. Ha, H. Ko, K. Han, and J. Park (Korea)

### Keywords

I/Q mismatch, I/Q imbalance, low-IF receiver, direct conversion receiver, SDR, software-defined radio

### Abstract

- I/Q processing structures widely used in today's communication receivers, such as the low-IF and direct conversion arc face serious problem of I/Q mismatch. In practice, due to the problem of analog part, such mismatch is unavoidable, which finite and insufficient rejection of the image signal. These effects cause the desired signal to be interfered by image sign. paper, we focus on the low-IF receiver based on OFDM technique as today's popular transmission method. So, we carried ( analysis and effects of mismatched I/Q processing in the OFDM low-IF receiver. Also, we proposed a new scheme compensate I/Q mismatch by least squares method using null-carriers of OFDM symbol. And, the computer simulation re provided in order to evaluate the performance of the proposed schemes. From the simulation results, the mismatch problem ·perfectly compensated by using only one OFDM symbol.

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# Patent Assignment Abstract of Title

**Total Assignments: 1**

**Application #:** 10700474    **Filing Dt:** 11/05/2003    **Patent #:** NONE    **Issue Dt:**

**PCT #:** NONE    **Publication #:** NONE    **Pub Dt:**

**Inventors:** Chien-Meen Hwang, Harish Kutagulla, Xu Zhou

**Title:** DC offset cancellation in a direct conversion receiver configured for receiving an OFDM signal

**Assignment: 1**

| **Reel/Frame:** 014685 / 0217 | **Received:** 11/14/2003 | **Recorded:** 11/05/2003 | **Mailed:** 06/03/2004 | **Pages:** 3 |

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignors:** HWANG, CHIEN-MEEN    **Exec Dt:** 08/22/2003

ZHOU, XU    **Exec Dt:** 09/03/2003

KUTAGULLA, HARISH    **Exec Dt:** 09/10/2003

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(**QAM**) **OFDM**-type modulation. Manuscript received April 19, 2004; revised June 30, 2004.
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   ...16 discrete amplitude levels. 16 **QAM** 16 Quadrature Amplitude Modulation...signal to a
   circuit to remove any **DC offset**, or the overall voltage level that...find the signal is to remove
   the **DC offset** by AC coupling, and then do DC restoration...
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   www.ee.ucla.edu/~mimo...mimo@ee.ucla.edu Performance of MIMO-**OFDM** I/Q mismatch
   cancellation Simulation...mimo Slide 38 mimo@ee.ucla.edu MIMO **OFDM** ASIC Features ·
   Standalone as well...Modulation · Data stream scrambling · 4-**QAM**, 16-**QAM** and 64-**QAM** · 64
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   ...QPSK, 16QAM, and 64 **QAM**. The chip set's unique...when operating in **OFDM** mode. The
   RF5425...architecture are **DC offset**, flicker noise, and...baseband algorithms. A **DC offset**
   loop operates in...dynamically correct for **DC offset**. Similarly, in-phase...mismatch is
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    ...6 2.4 **QAM** (Quadrature Amplitude Modulation...5 Figure 2 - 3: An example of a 4-**QAM**
    system sending two bits per symbol per channel ....7 Figure 2- 4: An example of a 16-**QAM**
    system...
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    ESTIMATION
    **GILBERT, Jeffrey M. / MENG, Teresa H. / THOMSON, John / WANG, Yi-Hsiu**, *PATENT
    COOPERATION TREATY APPLICATION*, Apr 2003
    ...modulated subcarriers in an **OFDM** system. To obtain high spectral...and orthogonal, hence
    the name **OFDM**. Each narrowband subcarrier...quadrature amplitude modulation **QAM** (or the
    differential equivalents...spectrum of received 802.11 a **OFDM** symbols, including carrier leak,
    and a receiver's **DC offset**; Figure10 illustrates a receiver...
    **Full text available at patent office. For more in-depth searching go to** LexisNexis
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13. Fine-frequency offset estimation
    **Chiodini, Alain**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT
    PUBLICATION*, Oct 2002
    ...quadrature phase shift keying (QPSK), 16-**QAM** and 64-**QAM** (and 256-**QAM** in future
    standard enhancements). The...estimation, has been frequency offset **corrected** accordingly.
    It is also assumed that the...preferred method comprises a step in which an **OFDM** signal is
    I/Q sampled. The minimization...
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☐ **14.** Receiving apparatus
**Kanno, Ippei, Matsushita Electric Ind. Co., Ltd. / Ozeki, Hiroaki, Matsushita Electric Ind. Co., Ltd. / Oba, Yasuo, Matsushita Electric Ind. Co., Ltd. / Fujishima, Akira Matsushita Electr. Ind. Co., Ltd. / Iwaida, Mineyuki Matsushita Electr. Ind. Co., Ltd.,** *EUROPEAN PATENT APPLICATION,* Apr 2003
...amplifier) 17, an LPF 18, an AD converter (ADC) 19, an **OFDM** demodulator 20 and a transport stream output terminal...bandwidth of 429 kHz are connected and subjected to **OFDM** modulation and a resultant **OFDM** signal is transmitted at a band of 6 MHz. An stationary...
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**Wang, Yi-Hsiu / Gilbert, Jeffrey M.,** *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION,* Aug 2003
...and fine symbol timing adjustment. Since **OFDM** is extremely sensitive to the carrier frequency...spread caused by multipath so that the **OFDM** symbols can remain independent from each...QPSK), 16-quadrature amplitude modulation (**QAM**), or 64-**QAM** with various degrees of error correction...
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**Gilbert, Jeffrey M. / Meng, Teresa H. / Thomson, John / Wang, Yi-Hsu,** *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION,* Mar 2003
...and fine symbol timing adjustment. Since **OFDM** is extremely sensitive to the carrier frequency...spread caused by multipath so that the **OFDM** symbols can remain independent from each...QPSK), 16-quadrature amplitude modulation (**QAM**), or 64-**QAM** with various degrees of error correction...
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☐ **17.** A/D CONVERSION OFFSET ERROR CORRECTION
**RUDBERG, Mikael, Karlsson,** *EUROPEAN PATENT,* Apr 2002
...US 5,281,968 discloses a **DC offset** correction circuit and is...signals, decoding of this offset **corrected** signal will be more robust...A/D converter suitable for **QAM** signals may be based on the...A/D converting element is **corrected**. The difference with respect...embodiment is useful for DMT or **OFDM** applications. In the embodiment...correction arrangement. If **QAM** modulation is assumed, the...
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☐ **18.** Conversion of PCM to A DC-centered VSB signal
**McNeely, David Lowell, Thomson multimedia,** *EUROPEAN PATENT APPLICATION,* Feb 2001
A digital VSB modulator (200) includes a modulator to which an ongoing sampled data stream of 1-sample-per-symbol successive PCM symbol signal samples are applied as a modulating signal. A sampled carrier stream (302), occurring at the rate of the signal ...
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☐ **19.** PHASE COMPARATOR USING UNDERSAMPLING
**SORRELLS, David F. / BULTMAN, Michael J. / COOK, Robert W. / LOOKE, Richard C. / MOSES, Charley, D., Jr. / RAWLINS, Gregory S. / RAWLINS, Michael W. / (...) / SMITH, Francis J.,** *PATENT COOPERATION TREATY APPLICATION,* Jun 2001
Systems and methods for utilizing universal frequency translators for phase detection and/or frequency detection. Phase and/or frequency detection can be utilized for comparing a higher frequency reference signal with a lower frequency local oscillator ...
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**20.** Communication system with multicarrier telephony transport

☐ **Dapper, Mark J. / Geile, Michael J. / Hill, Terrance J. / Roberts, Harold A. / Anderson, Brian D. / Brede, Jeffrey / Wadman, Mark S. / (...) / Sarnikowski, Scott,**
*EUROPEAN PATENT APPLICATION*, Aug 2001
...units may leave many users without service. After the fault is **corrected**, it is important bring as many remote units back into service...applications include signal processing in modems which use **OFDM** (orthogonal frequency division multiplexing). In order to...applications include signal processing in modems which use **OFDM** (orthogonal frequency division multiplexing). One need in...
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Dec 2003
...dynamic range requirements of the **OFDM** signal. Fig. 8 illus- trates...constellation for a single-carrier 64-**QAM** signal indicating an EVM of...CMOS TRANSCEIVER FOR IEEE **802.11a** WIRELESS LAN SYSTEMS 1691 Fig. 8. Measured **OFDM** output power as a function...Simplified LNA schematic. 64-**QAM OFDM** signal. The RF and IF...to 41 dB in 1-dB steps. The **dc offset** of the receive chain is cancelled...
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<u>power amplifier</u>
<u>quadrature</u>
<u>signal generator</u>
<u>transceiver</u>
<u>transmitter</u>

☐ 2. <u>A 5-GHz CMOS transceiver for IEEE 802.11a wireless LAN systems - Solid-State Circuits, IEEE Journal of</u> [PDF-32K]
Dec 2003
...dynamic range requirements of the **OFDM** signal. Fig. 8 illus- trates...constellation for a single-carrier 64-**QAM** signal indicating an EVM of...CMOS TRANSCEIVER FOR IEEE **802.11a** WIRELESS LAN SYSTEMS 1691 Fig. 8. Measured **OFDM** output power as a function...Simplified LNA schematic. 64-**QAM OFDM** signal. The RF and IF...to 41 dB in 1-dB steps. The **dc offset** of the receive chain is cancelled...
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...block before it enters the **OFDM** system. The transform imposes...based scheme used in the IEEE **802.11a** wireless standard. Please address...Frequency Division Multiplexing (**OFDM**) ([6], [9], [13]). It has been...communications standards (ADSL [1], IEEE **802.11** [5], HiperLAN [2]), and...constellation (e.g., BPSK, **QAM**) is segmented into blocks of...subcarrier. · It maintains zero **DC offset** in each block. · It introduces...
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☐ 4. <u>Enhanced power efficiency of mobile ofdm radio using pre-distortion and post-compensation - Vehicular Technology Conference, ...</u> [PDF-38K]
Dec 2003
...frequency-division multiplexing (**OFDM**), multi-carrier modulation...of FFT/IFFT for modulation. **OFDM** has been adopted in several wireless standards such as IEEE **802.11a** WLAN and ETSI terrestrial broadcasting...However one major drawback of **OFDM** is the notoriously high Peak-to-Average...saturation. The simulations in 16-**QAM OFDM** show very promising performance...respectively. 0 represents the **DC offset**, 1 is the linear scalar...
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...**802.11a** Standard 1-3 Generating an **802.11a** Frame Using ADS Select Tutorial: Understanding the **802.11a** Frame Format. 1-4 **OFDM** Modulation WLAN Standard **OFDM** Modulation...modulated differently, e.g. BPSK, QPSK or **QAM** · To achieve high bandwidth efficiency...
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**6.** John Thomson Bevan Baas Elizabeth M Cooper Jeffrey M Gilbert George Hsieh Paul Husted [PDF-8K]
Feb 2002
7.2 An Integrated **802.11a** Baseband and MAC Processor...standard, based on coded **OFDM** modulation [2,3], provides...domain. Calibration of **DC offset** and gain in the analog...Zheng. References [1] **802.11a** standard, ISO/IEC 8802-11...A Digital 72Mb/s 64-**QAM OFDM** Transceiver for 5GHz...COFDM Modem for IEEE **802.11a** with Integrated ADCs...
[http://nova.stanford.edu/~bbaas/ps/isscc2002_text.pdf]
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**7.** Iterative Channel Estimator and Equalizer for OFDM Modulation Systems [PDF-27K]
Apr 2003
...that in the IEEE **802.11a** standard, two repeated **OFDM** symbols with cyclic...example, in the IEEE **802.11a** standard for wireless...rate of 54 Mbps, 64 **QAM** modulation scheme...angle between two 64 **QAM** constellation points...According to IEEE **802.11a** standard, the preamble...10 short slots (2 **OFDM** symbols' duration...gain control (AGC), **DC offset** correction etc, a...
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**8.** No Title [PDF-15K]
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...dynamically correct for **DC offset**. Similarly, in-phase...achieve maximum IEEE **802.11a/b/g** system performance...memory. 2. An **802.11a/g OFDM** modem. 3. An **802.11b** CCK modem...support the IEEE **802.11a**, b, and g protocols...4 GHz LNA LNA **DC offset** compensation loop...
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**9.** 20_2_slides_final [PDF-7K]
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...· Radio Integration and the **802.11a** Standard · Direct Conversion...Conclusions Requirements for **802.11a** WLAN · Low cost high integration...use · High performance 64-**QAM-OFDM** needed for multi-path TX...DFc 9oo 9oo Df · LO leakage/**DC Offset** · IQ mismatch · Matched I...
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**11.** Newsletter 34 OK.qxt [PDF-70K]
Oct 2002
NEWS FLASH 1. IMEC NEWSLETTER SEEDS FOR TOMORROW'S WORLD: IMECNOLOGY N° 34 - October 2002 > In this issue IMEC introduces two cross-divisional initiatives: M4 and Human++ p.1 New center of excellence on reliability and failure physics p.1 Editorial p.2 Significant progress in 157nm technology p.
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**12.** Fine-frequency offset estimation
**Chiodini, Alain,** *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Oct 2002
...orthogonal frequency division multiplexing (**OFDM**), and quadrature phase shift keying (**QAM**) of signals transmitted in the license-free...103. Such units all conform to the IEEE-**802.11a** specification for a physical layer (PHY...rule of thumb that was derived from the **OFDM**-related papers. The specification therefore...rates. The IEEE **802.11a** standard, herein "**802.11a**", specifies, among other things, the...orthogonal frequency division multiplexing (**OFDM**) system with data payload communication...
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**13.** Computational circuits and methods for signal deconstruction/reconstruction in wireless transceivers
**Wight, James Stuart**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Oct 2002
...be understood that in these examples an **OFDM** modulator is used but the invention is...modulation schemes including single carrier **QAM** computational modulators), [0031] The...the digital modulation processing (being **OFDM** in the illustrated embodiment but this is equally true for **QAM**). As such, these engines enable the efficient...0044] For computationally generated **OFDM** or **QAM** signals, the signal is a sequence of complex...
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**14.** In-phase and quadrature-phase rebalancer
**Wiss, John**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jul 2002
...can be used to extract the **DC offset**, cancel the arbitrary signal...at various SNRs for a IEEE **802.11A** compliant multicarrier system...23 dB, a nominal point for **QAM–64 OFDM**. It should be noted that convergence...and phase imbalance for a 64 **QAM-OFDM** signal per IEEE **802.11A**. There is an implied implementation...
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**15.** Design Aspects of Fully Integrated Multiband Multistandard Front-End Receivers
**Adiseno,**, Jan 2003
In this thesis, design aspects of fully integrated multibandmultistandard front-end receivers are investigated based onthree fundamental aspects: noise, linearity and operatingfrequency. System level studies were carried out to investigatethe effects of ...
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**16.** Integrated concurrent multi-band radios and multiple-antenna systems
**Hashemi, Hossein**, Sep 2003
This thesis presents a unique view on radio systems that can simultaneously function at multiple frequency bands. These radios offer a higher data-rate and robustness in addition to the added functionality in the performance of wireless systems. Our ...
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**17.** Post-fft scaling to reduce multiple effects
**Wang, Yi-Hsiu / Gilbert, Jeffrey M.**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Aug 2003
...design features that deviate from the IEEE **802.11a** standard. [0034]FIG. 3 illustrates the packet structure that the IEEE **802.11a** standard requires for information transmission...and fine symbol timing adjustment. Since **OFDM** is extremely sensitive to the carrier...16-quadrature amplitude modulation (**QAM**), or 64-**QAM** with various degrees of error...
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**18.** Fine frequency offset estimation and calculation and use to improve communication system performance
**Gilbert, Jeffrey M. / Meng, Teresa H. / Thomson, John / Wang, Yi-Hsu**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Mar 2003
...design features that deviate from the IEEE **802.11a** standard. [0035]FIG. 3 illustrates the packet structure that the IEEE **802.11a** standard requires for information transmission...and fine symbol timing adjustment. Since **OFDM** is extremely sensitive to the carrier...16-quadrature amplitude modulation (**QAM**), or 64-**QAM** with various degrees of error...
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**19.** METHOD AND APPARATUS FOR REDUCING DC OFFSETS IN A COMMUNICATION SYSTEM
**SORRELLS, David F.**, *PATENT COOPERATION TREATY APPLICATION*, May 2003
...invention relates to reducing or eliminating **DC offset** voltages when down- converting a signal...systems. One such problem is when unwanted **DC offset** voltages exist in receiver channels. A **DC offset** 20 voltage may enter a receiver channel...
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☐ **20.** <u>QUADRATURE TRANSCEIVER SUBSTANTIALLY FREE OF ADVERSE CIRCUITRY MISMATCH</u>
<u>EFFECTS</u>
**GU, Jian,** *PATENT COOPERATION TREATY APPLICATION,* Feb 2003
...64-quadrature amplitude modulation (64-**QAM**) is used. [0035] In some cases...conversion
receivers, there is also a **DC- offset** of I and Q channels. **DC offset** is mainly due to circuitry
disparity...when a receiver has a severe **DC offset** problem due to self-mixing or...
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Popov, O.V.;
Circuits and Systems for Communications, 2002. Proceedings. ICCSC '02. 1st IEEE International (
26-28 June 2002 Page(s):250 - 253
Digital Object Identifier 10.1109/OCCSC.2002.1029089

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☐ 2. **A 2.4-GHz CMOS receiver for IEEE 802.11 wireless LANs**
Razavi, B.;
Solid-State Circuits, IEEE Journal of
Volume 34,  Issue 10,  Oct. 1999 Page(s):1382 - 1385
Digital Object Identifier 10.1109/4.792608

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☐ 3. **A single-chip transceiver for 802.11a and Hiperlan2 wireless LANs**
Pipilos, S.; Metaxakis, E.; Tzimas, A.; Vlassis, S.; Sgourenas, S.; Tsividis, Y.; Varelas, T.;
Radio Frequency Integrated Circuits (RFIC) Symposium, 2003 IEEE
8-10 June 2003 Page(s):33 - 36

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☐ 4. **Low complexity frequency offset estimation in the presence of DC offset**
Chin Keong Ho; Sumei Sun; Ping He;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 3,  11-15 May 2003 Page(s):2051 - 2055 vol.3
Digital Object Identifier 10.1109/ICC.2003.1203979

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☐ 5. **OFDM-WLAN receiver performance improvement using digital compensation techniques**
Eberle, W.; Tubbax, J.; Come, B.; Donnay, S.; De Man, H.; Gielen, G.;
Radio and Wireless Conference, 2002. RAWCON 2002. IEEE
11-14 Aug. 2002 Page(s):111 - 114
Digital Object Identifier 10.1109/RAWCON.2002.1030130

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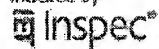6. **Calibration of IQ imbalance in OFDM transceivers**
Shafiee, H.; Fouladifard, S.;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 3, 11-15 May 2003 Page(s):2081 - 2085 vol.3
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